Recombinant RT23 protein (His tag)

Catalog Number	536684
Synonyms	28S ribosomal protein S23, mitochondrial
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P34748
Gene ID	191523
Molecular Weight	Predictes a molecular mass of 17.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	1-133
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-133 aa (P34748) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Small ribosomal subunit protein mS23 (28S ribosomal protein S23, mitochondrial) fragment from Caenorhabditis elegans, representing amino acids 1-133. This stable and soluble protein fragment is ideal for structural biology studies and biochemical characterization of mitochondrial ribosome components. The full-length Small ribosomal subunit protein mS23 (encoded by mrps-23) is localized to the mitochondrion, as confirmed by UniProtKB annotation (ECO:0000250|UniProtKB:Q2NL27). As a mitochondrial ribosomal protein, it plays an essential role in mitochondrial protein synthesis, which is crucial for cellular energy production and mitochondrial function. The provided fragment (1-133) was computationally selected to represent a stable and soluble unit of the protein, facilitating research into mitochondrial ribosome structure and function.